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	THE DIG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		1279-367XX/10103645	4459
09/886,360	06/20/2001	Larry A. Coldren	12/9-36/XX/10103043	1103
7:	590 09/29/2003	•		
ELII DDICHT	& IAWORSKI		EXAMINER	
FULBRIGHT & JAWORSKI 865 S. Figueroa St., Suite 2900 Los Angeles, CA 90017			SIEFKE, SAMUEL P	
Los Angeles, e	711 9001		ART UNIT PAPER N	PAPER NUMBER
	•		1743	
			DATE MAILED: 09/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/886,360	COLDREN, LARRY A.		
	Office Action Summary	Examiner	Art Unit		
		Samuel P Siefke	1743		
	- The MAILING DATE of this communication	on appears on the cover sheet with	h the correspondence address		
Daried for	r Daniv				
THE N - Exten after s - If the - If NO - Failur - Any re earne	DRTENED STATUTORY PERIOD FOR INTERIOR DATE OF THIS COMMUNICAT sions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutory to to reply within the set or extended period for reply will, be eply received by the Office later than three months after the difference of the patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a re tion. s, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MON).	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status 1)⊠	Responsive to communication(s) filed	on			
·	This action is FINAL 2b)	This action is non-final.	. •		
3)	This double to the ments is				
Disposit	ion of Claims	,			
4)⊠	Claim(s) 1-11 is/are pending in the app	lication.			
.,	4a) Of the above claim(s) <u>8-11</u> is/are with	thdrawn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-7</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	and subject to restriction	n and/or election requirement.			
	tion Papers				
9)□	The specification is objected to by the E	xaminer.	the Evaminer		
10)	The drawing(s) filed on is/are: a)	accepted or b) objected to by	vance See 37 CFR 1.85(a).		
	Applicant may not request that any object	tion to the drawing(s) be field in abey	disapproved by the Examiner.		
11)	The proposed drawing correction filed of	in is. a) approved b)	ulouppie		
	If approved, corrected drawings are requ	with Examiner			
I	The oath or declaration is objected to b	y the Examiner.			
Priority	under 35 U.S.C. §§ 119 and 120	- foreign priority under 25 H S C	8 119(a)-(d) or (f).		
	Acknowledgment is made of a claim for	or roreigh phonicy under 35 0.0.0			
1	a) All b) Some * c) None of:	hour boar received			
	1. Certified copies of the priority d	ocuments have been received in	Application No.		
	2. Certified copies of the priority d	ocuments have been received in	en received in this National Stage		
	application from the Interna	for a list of the certified copies no	of leccived.		
14)	Acknowledgment is made of a claim for	r domestic priority under 35 U.S.0	C. § 119(e) (to a provisional application).		
	a) ☐ The translation of the foreign lang ☐ Acknowledgment is made of a claim for	mage provisional application has	been received.		
Attachm					
1) 🗌 N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PT offormation Disclosure Statement(s) (PTO-1449) Pa	TO-948) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		
	and Trademark Office	Office Action Summary	Part of Paper No. 6		

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-7, drawn to a tunable laser cavity sensor chip, classified in class
 422, subclass 82.11.
- II. Claims 8-11, drawn to a method of detecting a molecular species in a sample, classified in class 436, subclass 164.

The inventions are distinct, each from the other because of the following reasons:

Inventions Group II and Group I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the method can be used with a different apparatus. A Gabry-Perot Interferometer can be used instead of the heterodyne detection to evaluate a frequency change.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Robert Berlin on 6/15/03 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-7.

Affirmation of this election must be made by applicant in replying to this Office action.

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Claims 8-11 are withdrawn from further consideration by the examiner, 37

CFR 1.142(b), as being drawn to a non-elected invention.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 10, 7, 8, 9, 15, 16, 17 of copending Application No. 09/916,541. Although the conflicting claims are not identical, they are not patentably distinct from each other because they both comprise a pair of lasers comprising a reference laser and a sensor laser, a waveguide ,and a heterodyne detector. The only difference is that '541 refers to the sensor region of the current application as a sensor chamber.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by BEREGOVSKI, Y. et al. "Design and Characteristics of DBR-laser-based environmental sensors", November 1998.

Beregovski discloses a DBR laser based sensor which comprises a pair of sensors, one being a reference laser and the other being a DBR chemical laser (page 117, 1st col., paragraph 3) each having a waveguide having a gain section (page 117, 2nd col. paragraph 1), opposing mirrors including a partially transmissive mirror (fig. 1; page 119, 1st col. paragraph 3-4 and fig. 5); the wave guide having a phase control section (page 117, 2nd col. paragraph 1); the coherent light bean output section being joined to enable coherent light outputs of the reference and senor laser to interfere (page 117, 2nd col. paragraph 1); a sensor region formed through and exposing the evanescent optical field to the sensor laser for receiving a sample (page 116, 2nd col. paragraph 1, fig. 8) a heterodyne detector (page 118, 2nd col. paragraph 2); a facet mirror is used and a grating mirror allows for different sampling periods (fig 6).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel P Siefke whose telephone number is 703-306-0093. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 703-308-4037. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

SPS S

September 17, 2003

Supervisory Patent Examiner Technology Center 1700